POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

YALE UNIVERSITY hereby revokes all previous powers of attorney given in the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications.

YALE UNIVERSITY hereby appoints the Practitioners associated with

Customer No. 23579

as attorney(s) or agent(s) to represent YALE UNIVERSITY before the United States Patent and Trademark Office (USPTO) in connection with any and all matters pertaining to the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications, with full power of substitution, association and revocation, to prosecute said application and to transact all business in the USPTO connected therewith.

Please change the correspondence address for the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications to the address of record for

Customer No. 23579

Please direct all communications to the attention of:

Robert A. Hodges

Registration No. 41,074

Telephone:

(404) 879-2346

Facsimile:

(404) 879-2160

The undersigned (whose title is supplied below) is authorized to act on behalf of YALE UNIVERSITY.

I declare that all statements made herein of my own knowledge and belief are true and that all statements made on information and belief are believed to be true, and further, that the 45114437-1

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statements are made with the knowledge that willful false statements are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

YALE UNIVERSITY

By: Joverly Medican

Dorothy K. Robinson

Vice President and General Counsel

Yale University

Two Whitney Avenue New Haven, CT 06511

Date: 12/20/13

SCHEDULE OF APPLICATIONS

Application No.	Filing Date	Title:	Yale Reference No	PPG Reference Number
60/932,112	5/29/2007	Riboswitches and Methods and Compositions for Use of and with Riboswitches	OCR 4711	24519.1.8401
12/602,338	5/29/2008	Riboswitches and Methods and Compositions for Use of and with Riboswitches	OCR 4711	24519.1.8402
60/932,164	5/29/2007	Methods and Compositions Related to Riboswitches that Control Alternative Splicing and RNA Processing	OCR 4712	24519,2,8401
12/602,390	5/29/2008	Methods and Compositions Related to Riboswitches that Control Alternative Splicing and RNA Processing	OCR 4712	24519.2.8402
60/919,410	3/22/2007	PreQ1 Riboswitches and Methods and Compositions for Use of and with PreQ1 Riboswitches	OCR 4646	24519.4.8401
12/532,538	3/5/2010	PreQ1 Riboswitches and Methods and Compositions for Use of and with PreQ1 Riboswitches	OCR 4646	24519.4.8402
60/919,433	3/22/2007	Methods and Compositions Related to Riboswitches that Control Alternative Splicing	OCR 4647	24519.5.8401
12/532,477	3/11/2010	Methods and Compositions Related to Riboswitches that Control Alternative Splicing	OCR 4647	24519.5.8402
60/412,468	9/20/2002	Riboswitches, Methods for their Use, and Compositions for Use	OCR 1397	24519.6.8401
10/669,162	9/22/2003	Riboswitches, Methods for their Use, and Compositions for Use Riboswitches, Methods for Their Use,	OCR 1397	24519.6.8402
12/492,866	6/26/2009	and Compositions for Use with Riboswitches Riboswitches, Methods for Their Use,	OCR 1397	24519.6.8403
12/709,072	2/19/2010	and Compositions for Use with Riboswitches Nucleic Acid Catalysts with	OCR 1397	24519.6.8404
60/181,360	2/8/2000	Endonuclease Activity Nucleozymes with Endonuclease	OCR 1089	24519.7.8401
60/193,646	2/8/2000	Activiey Nucleic Acid Catalysts with	OCR 1089	24519.7.8402
09/780,929	2/8/2001	Endonuclease Activity Nucleozymes with Endonuclease	OCR 1089	24519.7.8403
09/781,902	2/8/2001	Activiey	OCR 1089	24519.7.8404
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Application No.	Filing Date	Title	Yale Reference No	PPG Reference Number
10/457,039	6/6/2003	Nucleozymes with Endonuclease Activiey	OCR 1089	24519.7.8405
60/617,309	10/7/2004	Glycine Riboswitches, Methods for their Use, and Compositions Glycine Riboswitches, Methods for their	OCR 3027	24519.8.8401
11/664,655	10/7/2005	Use, and Compositions Riboswitches, Structure-Based	OCR 3027	24519.8.8402
60/625,864	11/8/2004	Compound Design with Riboswitches, and Methods and Compositions for Use with Riboswitches	OCR 3028	24519.9.8401
11/667,153	11/8/2005	Riboswitches, Structure-Based Compound Design with Riboswitches, and Methods and Compositions for Use with Riboswitches	0.070.0000	04540 0 0400
18007,100	1 110/2000	High Throughput Screening Methods for Identifying and Characterizing Low Molecular Weight Ligands that Bind to	OCR 3028	24519.9.8402
60/752,726	12/21/2005	and Modulate the Activity of Riboswitches	OCR 4023 US00	24519.10.8401
12/158,168	12/21/2006	Methods And Compositions Related To The Modulation Of Riboswitches	OCR 4023	24519.10.8402
60/843,728	9/11/2006	Lysine Riboswitches, Structure-based Compound Design with Lysine Riboswitches, and Methods and Compositions for Use of and with Lysine Riboswitches	OCR 4465	24519.11.8400
12/440,808	1/22/2010	Lysine Riboswitches, Structure-based Compound Design with Lysine Riboswitches, and Methods and Compositions for Use of and with Lysine Riboswitches	OCR 4465	24519.11.8401
	9/6/2006 &	GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS	OCR 4464 &	240 (0.11.040)
60/842,870	9/16/2006	Riboswitches GlmS Riboswitches, Structure-based	OCR 4474	24519.12.8400
60/844,844	9/6/2006 & 9/16/2006	Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS Riboswitches	OCR 4464 & OCR 4474	24519.12.8400

Application No.	Filing Date	Tille	Yale Reference No.	CHI TORIC CAT PROPERTY THE PROPERTY OF THE PRO
		GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS	OCR 4464 &	
12/440,172	9/6/2007	Riboswitches	OCR 4474	24519.12.8401
60/852,951	10/19/2006	Computational Design of Ribozymes	OCR 4323	24519.13.8400
12/446,188	4/17/2009	Computational Design of Ribozymes	OCR 4323	24519.13.8402
61/216,354	5/15/2009	Crystal Structure of a GEMM Riboswitch from Vibrio cholerae Bound to Cyclic Diguanosine Monophosphate	OCR 5182	24519.14.8401
61/234,367 61/335,852	8/17/2009 1/12/2010	Combined repetitive DNA blomarkers for measuring genomic instability, stress, aging, cancer risk, tumor burden, and response to therapy Bacterial Noncoding RNA Candidates	OCR 5101 OCR 5344	24519.15.8401 24519.16.8401